5	SOLICITATION/CON					REQUISITION NO OAR-16		2	PAGE OF	1 14
2. CONTRACT N		COMPLETE BLO	3. AWARD/	4. ORDER NUMBER) 1. – MAO		SOLICITATION NUMBER	1 1	6. SOLICITATION
2. CONTRACT N EP-W-16	-015		EFFECTIVE DATE	0004				, SOLIOTI MONIBLE		ISSUE DATE
	R SOLICITATION ORMATION CALL:	a. NAME Robert	Gray			b. TELEPHONE 202-564		(No collect calls)	8. OFFER DU ET	JE DATE/LOCAL TIME
9. ISSUED BY	WANTED THE PARTY OF THE PARTY O	-	CODE H	POD	10, THIS ACC	UISITION IS	X UNR	ESTRICTED OR	SET ASIDE:	% FOR:
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15. DELIVER TO		CODE	OAR/OAP		16. ADMINIST	TERED BY			CODE HP	OD
1200 Per Mail Coo OAR/OAP	ronmental Pro nnsylvania Av de: 62101J ton DC 20460		gency		Willia 1200 P Mail C	m Jeffe	rson C ania A 803R	rotection Age Clinton Build Evenue, N. W.	ling	
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19, ITEM NO.		SCHEDIII	20. LE OF SUPPLIES/SERV	1058		21. QUANTITY	22. UNIT	23. UNIT PRICE		24. AMOUNT
	DUNS Number: This task or Task Order O incorporates conditions b performance The Contract the Attachme the accepted (6 pages) da (Use Revers	rdering P the base y referen to commen or shall nt A Stat technica ted June	sued in accordance contract ce. The effice is July perform in ement of Well proposal	and hereby terms and fective date 9, 2016. accordance ork (4 pages and cost es the amount	e for with s) and stimate					
25. ACCOUNTI	ING AND APPROPRIATIO						26.	TOTAL AWARD AMOU	NT (For Govt.	Use Only)
See Sche			9-2000					\$145,274		
☐ 27a. SOLICI ☐ 27b. CONTR	TATION INCORPORATES ACT/PURCHASE ORDER	BY REFERENCE R INCORPORATE	FAR 52.212-1, 52.2 S BY REFERENCE I	12-4. FAR 52.212-3 A FAR 52.212-4. FAR 52.2	ND 52.212-5 212-5 IS ATT/	ARE ATTACH ACHED.	ED. ADD ADDENDA	ENDA	22	ARE NOT ATTACHED. ARE NOT ATTACHED.
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AUTHORIZED FOR LOCAL REPRODUCTION PREVIOUS EDITION IS NOT USABLE

STANDARD FORM 1449 (REV. 2/2012) Prescribed by GSA - FAR (48 CFR) 53,212

12										
19. ITEM NO.		20. SCHEDULE OF SUPPLIE	S/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PI		24. AMOUNT
	\$145,274.									
	This is a	Time-and-Materials	(T&M)) task orde	r					
	with a tot	al ceiling price o	of \$145	5,274, which	h the					
	Contractor	is not authorized	l to ex	xceed. The						
	Contractor	exceeds at its ow	m ris	k.						
	The total	obligated/funded a	mount	for this o	rder					
	is \$20,000	. This order is he	ereby i	incremental	ly					
	funded as	detailed in Attach	nment E	3 Summary o	f					
	Amounts and	d Ceilings. Attach	ment E	3 is hereby						
	incorporate	ed (1 page).								
	Contractin	g Officer's Repres	sentati	ive (COR) fo	or					
	this task	order:								
	Melissa Pu	chalski								
	(202) 343-	9882								
	puchalski.	melissa@epa.gov								
	Alternate (COR:								
	Greg Beach	ley								
	(202) 343-	9621								
	beachley.g	regory@epa.gov								
	The correign	es of this order a	ro for	r coverable						
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	Delivery:									
	_	Performance: 07/09	2016	to 07/08/20	017					
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32b. SIGNATUR	RE OF AUTHORIZED	GOVERNMENT REPRESENTATIV	Έ	32c. DATE	32d. PRIN	ITED NAME	AND 1	TITLE OF AUTH	ORIZED G	OVERNMENT REPRESENTATIVE
32e. MAILING A	ADDRESS OF AUTHO	RIZED GOVERNMENT REPRESE	NTATIVE		32f. TELE	PHONE NUI	MBER	OF AUTHORIZ	ED GOVER	NMENT REPRESENTATIVE
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41a. I CERTIFY	THIS ACCOUNT IS (CORRECT AND PROPER FOR PAY	MENT		42a. RI	ECEIVED BY	' (Prim	' ')		
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CONTINUATION SHEET	EP-W-16-015/0004	3	14

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)

Title: Tribal Base Operation of the Network

Contractor: Amec Foster Wheeler

Contract #: EP-W-16-015

Task Order #: 004

Period of Performance: 7/9/2016 to 7/8/2017

EPA Key Personnel

Task Order Project Officer (TOPO)/Contract Level Project Officer (PO):

Melissa Puchalski Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M

Washington, DC 20460 *phone:* (202) 343-9882

email: puchalski.melissa@epa.gov

Alternate TOPO:

Greg Beachley Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9621

email: beachley.gregory@epa.gov

Contracting Officer (CO):

Rob Gray

Contracting Officer
Administrative Contract Service Center
1200 Pennsylvania Ave N.W.
Mail Code 3803R

Washington DC 20460 *phone:* (202) 564-1698

email: Gray.RobertA@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to provide for routine activities and provisions associated with operating the CASTNET base program at Tribal monitoring sites. All tasks shall be performed in accordance with the contract's Statement of Work.

Tasks performed under this task order will cover the operation of all CASTNET tribal monitoring sites, excluding all sites covered under Task Order 3.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in CLINs 1 through 21 of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Proposal

The Contractor shall prepare a Task Order Proposal in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract.

2. Base Operations

The contractor shall perform the tasks and subtasks listed in the SOW for Task Order 4 as delineated in the CASTNET V contract SOW and Amec's proposal. Descriptions of the technical approach and methods are found in the CASTNET QAPP v 8.2 and Amec's technical proposal. The number of applicable sites, units and estimated hours for the tasks and CLINs, as described in the contract's SOW, that shall be delivered are as follows:

CLIN	DESCRIPTION		SITES	UNITS	HOURS
2	Dry Dep Filterpack w/ operator		1	12	70
3	Dry Dep Filterpack w/o operator		5	60	349
4	Ozone Monitoring w/ operator		1	12	70
5	Ozone Monitoring w/o operator		2	24	140
7	Meteorology w/o operator		1	12	6
14	Filter Media Analysis		6	355	0
		TOTAL HOURS			724

Attachment 1 describes which tasks and CLINs shall be performed at each site. The table above is a summary of Attachment 1. The table above shows SITE/YEAR as the number of CLINs ordered for that site per *12-months*. The UNIT is the number of site-months ordered for each CLIN.

V. DELIVERABLES AND SCHEDULE

1. Proposal

The contractor shall deliver a Task Order Proposal in accordance with clause B.7 Task Order Ordering Procedures of the contract. The proposal shall be submitted 10 days after receipt of the SOW.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.3 Reports of Work and F.5 Monthly Progress Report. Reports shall be delivered electronically.

3. Additional Deliverables

The contractor shall deliver the following reports electronically (as required under Task Order 0003) and will include data from the Tribal monitoring sites under this Task Order. Duplicate reports shall not be submitted.

Daily Data Report 24 hours from collection of data Quarterly Data Reports 120 days after completion of quarter

Annual Report Draft August 15, 2016

QA Quarterly Report 30 days after completion of quarters 1, 2, 3

Distribution of Deliverables:

Addressee	Copies
EPA Contracting Officer (Rob Gray)	1
EPA Project Officer (Melissa Puchalski)	1
EPA Alternate (Greg Beachley)	1

Attachment 1. Matrix of CLINs by CASTNET Site ID

CITE ID			CLIN	Ns		
SITE_ID	2	3	4	5	7	14
ALC188	12		12			59.11
CHE185		12		12	12	59.11
KIC003		12				59.11
NPT006		12				59.11
RED004		12				59.11
SAN189		12		12		59.11
total	12	60	12	24	12	355
counts	1	5	1	2	1	6

ATTACHMENT B SUMMARY OF AMOUNTS AND CEILINGS

Total Funding/Obligation Amount					
Period	This Action		Amount		
Base Period	\$20,000		\$20,000		
Total	\$20,000		\$20,000		

Total Task Order Ceiling					
Period	This Action		Amount		
Base Period	\$145,274		\$145,274		
Total	\$145,274		\$145,274		

NOTE: This task order is hereby incrementally funded. The Contractor exceeds funding at its own risk.

This task order requires \$125,274 to be fully funded.

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. RE	UUSITION/PURCHASE REQ. NO.	5. PROJEC	ΠΟ. (If applicable)
001	08/01/2016	PR-0	DAR-16-01196	EP-W-1	5-015
6. ISSUED BY CODE	HPOD	7. AD	MINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R	ilding				
Washington DC 20460					
8. NAME AND ADDRESS OF CONTRACTOR (No., street AMEC ENVIRONMENT & INFRASTRUC	*		AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11)		
Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	ENT & I	× 10	A. MODIFICATION OF CONTRACT/ORDE $P-W-16-015$	R NO.	
		10	B. DATED (SEE ITEM 13)		
CODE 038086125	FACILITY CODE		06/28/2016		
07 10 10 10 11 T T T	11. THIS ITEM ONLY APP		MENTS OF SOLICITATIONS		
THE PLACE DESIGNATED FOR THE RECEIPT OF (virtue of this amendment you desire to change an offereference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If required).	r already submitted , such char is received prior to the opening	nge may be made	by telegram or letter, provided each telegra- ecified.		3
See Schedule					
	CT/ORDER IS MODIFIED TO F H IN ITEM 14, PURSUANT TO	REFLECT THE AD THE AUTHORITY	GES SET FORTH IN ITEM 14 ARE MADE I MINISTRATIVE CHANGES (such as chang OF FAR 43.103(b).		
D. OTHER (Specify type of modification	and authority)				
X FAR 43.103(b) Unilat	***	on			
E. IMPORTANT: Contractor 🗵 is not.	KCK		copies to the iss	suing office	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125			-1 28		
The purpose of this modifica	tion is to obli	gate incr	emental funding in the	e amount	of
\$80,000.00.					
The Contracting Officer has All other items remain uncha	-	bert Gray	to Anthony Terrell.		
Contracting Officer: Anthony Terrell 202-564-2640	terrell.anthon	y@epa.gov			
Contracting Officer's Repres		4 mc 7 "	0.000		
Melissa Puchalski 202-343-	yooz puchaisk.	ı.melıssa	eepa.gov		
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Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e accurrient referenced in Item	16A.	NAME AND TITLE OF CONTRACTING O		
15B. CONTRACTOR/OFFEROR	15C. DATE S		UNITED STATES OF AMERICA	ELECTRONIC	16C. DATE SIGNED
			ascull	SIGNA HIRE	08/01/2016
(Signature of person authorized to sign)	i i		(Nignature of Contracting Office)		

 CONTINUATION SHEET
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 OF

 EP-W-16-015/0004/001
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Alternate COR:				
	Greg Beachley 202-343-9621				
	beachley.gregory@epa.gov				
	beachiey.gregoryeepa.gov				
	TOCOR: Melissa Puchalski				
	LIST OF CHANGES:				
	Reason for Modification : Funding Only Action				
	Obligated Amount for this Modification: \$80,000.00				
	New Total Obligated Amount for this Award:				
	\$100,000.00				
	Contracting Officer changed				
	from Robert A Gray				
	to Anthony Terrell				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Obligated Amount for this modification: \$80,000.00				
	Incremental Funded Amount changed from \$20,000.00				
	to \$100,000.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	16-17-C-58D5-102A45-2505-1658DC6124-001				
	Beginning FiscalYear 16				
	Ending Fiscal Year 17				
	Fund (Appropriation) C				
	Budget Organization 58D5				
	Program (PRC) 102A45				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization DCN-LineID 1658DC6124-001				
	Quantity: 0				
	Amount: \$80,000.00				
	Percent: 55.06835				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Continued				

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Delivery: 06/15/2016				
	Delivery Location Code: OAR/OAP				
	OAR/OAP				
	US Environmental Protection Agency				
	1200 Pennsylvania Avenue NW Mail Code: 62101J				
	OAR/OAP				
	Washington DC 20460 USA				
	washington be 20400 USA				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				
		1			

AMENDMENT OF SOLICITATI	ON/MODIFIC	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE	PAGE OF PAGES		
2. AMENDMENT/MODIFICATION NO.		3. EFFECTIVE DATE	- IA	REQUISITION/PURCHASE REQ. NO.	ls ppoysor	2		
002		See Block 16C	1	NEGOTION ONO MOE NEG, NO.	EP-W-1	ΓNO. (If applicable) 5–015		
6. ISSUED BY	CODE	HPOD	7.	ADMINISTERED BY (if other than item 6)	CODE I			
HPOD			-	,,, ,				
US Environmental Pro	tection	Agency						
William Jefferson Cl	linton Bu	ilding						
1200 Pennsylvania Av	enue, N.	W.						
Mail Code: 3803R								
Washington DC 20460	***		_[
8. NAME AND ADDRESS OF CONTRA	CTOR (No., street	county, State and ZIP Code)	(x)	9A. AMENDMENT OF SOLICITATION NO.				
AMEC ENVIRONMENT & I	NFRASTRU	CTURE. INC.						
Attn: LISA DWYER				98. DATED (SEE ITEM 11)				
AMEC FOSTER WHEELER	ENVIRONM	ENT & I	ļ					
751 ARBOR WAY, STE 1			Ĺ					
(b)(4)			x	10A. MODIFICATION OF CONTRACT/ORDER N. EP-W-16-015	O.	-		
BLUE BELL PA 1942219	60			0004				
				10B. DATED (SEE ITEM 13)		···		
CODE 038086125		FACILITY CODE	\dashv	06/28/2016				
		11. THIS ITEM ONLY APPLIES	O AME					
The above numbered solicitation is an	nandad se es) fo			 				
Offers must acknowledge receipt of th	is amendment p	for to the hour and date specified in	the solic	tration or as amended , by one of the following mel	nded, 🔲 is no	at extended.		
items e and 15, and returning	cop	des of the amendment; (b) By ackno	wiedalno	receipt of this amendment on each copy of the off	for submitted .	or (e) Hu		
separate letter or telegram which inclu	ides a reference	to the solicitation and amendment n	umbers.	FAILURE OF YOUR ACKNOWN EDGEMENT TO	OC DECENTER	D AT		
THE PLACE DESIGNATED FOR THE	: RECEIPT OF C	PFFERS PRIOR TO THE HOUR AND	DATE S	SPECIFIED MAY RESULT IN REJECTION OF YOU	HE OFFED 161	hu		
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12. ACCOUNTING AND APPROPRIATION	ON DATA (If requ	ired)			-			
See Schedule								
13. THIS ITEM ONLY	APPLIES TO MO	DDIFICATION OF CONTRACTS/ORD	DERS. 11	MODIFIES THE CONTRACT/ORDER NO. AS DES	SCRIBED IN IT	EM 14.		
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595 Sc. 143		IS ENTERED INTO PURSUANT TO						
		O ENTERED INTO LOGGORAL IN	MOTH	PRITT OF.				
D. OTHER (Specify type	of modification a	ind authority)						
		cal Modification						
E. IMPORTANT; Contractor		is required to sign this document	and rote	ID 1 copies to the issuing				
				m copies to the issuing g solicitation/contract subject matter where feasible				
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December 20, 2016.	hades) a	nd the learsed ted	mire	al and cost proposal (6 p	ages) d	lated		
20, 2010.								
Contracting Officer:								
-	_	- m						
Mike Fox, 202-564-255	ou, fox.m	ichael@epa.gov						
Contracting Officer's	Represe	ntative (COR):						
Melissa Puchalski 2	02-343-9	882 puchalski.me	liss	a@epa.gov				
Continued								
Except as provided herein, all terms and	conditions of the	document referenced in Item 9 A or	10A, as .	heretofore changed, remains unchanged and in ful	Il force and effs	ect.		
15A. NAME AND TITLE OF SIGNER (Typ	e or print)		16/	A NAME AND TITLE OF CONTRACTING OFFICE	R (Type or pri	int)		
Kemp Howell - F	Project N	Manager	5000	chael C. Fox				
15B. CONTRACTOR OFFEROR	<u>.</u>	15C, DATE SIGNED		B. UNITED STATES OF AMERICA		00 01== 0:=:=		
V OIL III		. N I _ I I	, ¹⁸⁶	OOO . I O -	Į1	ISC. DATE SIGNED		
Signature of person authorized	to place	_ 12 22	_ ط	Y'lichold Jax		12/22/2016		
NSN 7540-01-152-8070	in ordera			(Signature of Contracting Officer)				
				SIA	MUAKU FORM	VI 30 (REV, 10-83)		

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Prescribed by GSA FAR (48 CFR) 53.243

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NAME OF OFFEROR OR CONTRACTOR

M NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	Alternate COR:				
	Greg Beachley 202-343-9621			ŀ	
	beachley.gregory@epa.gov			:	
	TOCOR: Melissa Puchalski		1 1		
	LIST OF CHANGES:		1		
	Reason for Modification : Other Administrative		1 1		
	Action	1	11		
	Total Amount for this Modification: -\$1,927.39	1		•	
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	from Anthony Terrell		ļ		
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	to Michael C Fox]		
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	to Michael C Fox				
	CHANGES FOR LINE ITEM NUMBER: 1		1 1	1	
	Total Amount changed	Į.			
	from \$145,274.00 to \$143,346.61	ļ	1 [
	CHANGES FOR DELIVERY LOCATION: OAR/OAP		1		
	Amount changed from \$145,274.00 to \$143,346.61	Ţ]]		
	Payment:			İ	
	RTP Finance Center	1	1 1		
	US Environmental Protection Agency		k l		
	RTP-Finance Center (AA216-01)		1		
	109 TW Alexander Drive	Į.	1 1		
	www2.epa.gov/financial/contracts	1			
	Durham NC 27711		1 1		
	FOB: Destination	J	<u> </u>]	
	Period of Performance: 07/09/2016 to 07/08/2017		1		
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AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CO	ONTRACT	1. CONTRACT ID CODE	PAGE OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE		5. PROJECT NO. (If applicable)
003	See Bloo	ck 16C	PR-OAR-17-00515	EP-W-15-015
6. ISSUED BY CODE	HPOD		7. ADMINISTERED BY (If other than Item 6)	CODE
HPOD US Environmental Protection William Jefferson Clinton Bo 1200 Pennsylvania Avenue, N Mail Code: 3803R Washington DC 20460	uilding			
8. NAME AND ADDRESS OF CONTRACTOR (No., street	t, county, State and	ZIP Code)	39A. AMENDMENT OF SOLICITATION NO.	
AMEC ENVIRONMENT & INFRASTRU Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	CTURE, II	NC.	9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORD EP-W-16-015 0004 10B. DATED (SEE ITEM 13)	ER NO.
CODE 038086125	FACILITY COD	DE	06/28/2016	
	11. THIS ITI	EM ONLY APPLIES TO AN	 ENDMENTS OF SOLICITATIONS	
Offers must acknowledge receipt of this amendment Items 8 and 15, and returning conseparate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offererence to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If received the solicitation and the solicitation between the solicitation and the same described by the	pies of the amen e to the solicitatio OFFERS PRIOR er already submit is received prior	dment; (b) By acknowledgen and amendment number TO THE HOUR AND DAT ted, such change may be to the opening hour and d	ing receipt of this amendment on each copy of t rs. FAILURE OF YOUR ACKNOWLEDGEMEN E SPECIFIED MAY RESULT IN REJECTION O made by telegram or letter, provided each teleg	the offer submitted ; or (c) By IT TO BE RECEIVED AT IF YOUR OFFER. If by
Symptotic Common Approximation of the Symptotic Common Com	IODIFICATION O	E CONTRACTO/ORDERO	IT MODIFIES THE CONTRACTIONDED NO. A	e precouped in item 44
13. THIS ITEM ONLY APPLIES TO K	IODIFICATION O	F CONTRACTS/ORDERS	IT MODIFIES THE CONTRACT/ORDER NO. A	S DESCRIBED IN ITEM 14.
CHECK ONE A. THIS CHANGE ORDER IS ISSUED ORDER NO. IN ITEM 10A.	PURSUANT TO:	(Specify authority) THE (HANGES SET FORTH IN ITEM 14 ARE MADE	IN THE CONTRACT
B. THE ABOVE NUMBERED CONTRA appropriation date, etc.) SET FORT C. THIS SUPPLEMENTAL AGREEMEN			HE ADMINISTRATIVE CHANGES (such as char DRITY OF FAR 43.103(b). THORITY OF:	nges in paying office,
D. OTHER (Specify type of modification	and authority)			
X FAR 43.103(b) Unilat	eral Mod	lification		
E. IMPORTANT: Contractor 🗵 is not.	is required t	to sign this document and	return copies to the is	ssuing office.
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125	(Organized by U	CF section headings, inclu	ding solicitation/contract subject matter where t	^r easible.)
The purpose of this modifica	tion is	to obligate i	ncremental funding in th	ne amount of
\$8,000.00.				
TOCOR: Melissa Puchalski				
LIST OF CHANGES:				
Reason for Modification : Fu	inding On	ly Action		
Obligated Amount for this Mo	dificati	on: \$8,000.00		
New Total Obligated Amount f		Award: \$108,0	00.00	
Incremental Funded Amount ch	anged:	from		
\$100,000.00 to \$108,000.00				
CHANGES FOR LINE ITEM NUMBER	k: 1			
Continued				
Except as provided herein, all terms and conditions of the	ne document refe	erenced in Item 9 A or 10A	as heretofore changed, remains unchanged ar	id in full force and effect.
15A. NAME AND TITLE OF SIGNER (Type or print)			16A NAME AND TITLE OF CONTRACTING O	OFFICER (Type or print)
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED		16C. DATE SIGNED
		IVO. DATE SIGNED	16B. UNITED STATES OF AMERICA	ELECTRONIC SIGNATURE 03/17/2017
(Signature of person authorized to sign)			(Signature of Contracting Officer)	

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 EP-W-16-015/0004/003
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
- , ,	Obligated Amount for this modification: \$8,000.00			, ,	* ′
	Incremental Funded Amount changed from				
	\$100,000.00 to \$108,000.00				
	7100,000.00 20 7100,000.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	16-E1D-58D5-102A17-2505-1758DC7026-001				
	Beginning FiscalYear 16				
	Ending Fiscal Year				
	Fund (Appropriation) E1D				
	Budget Organization 58D5				
	Program (PRC) 102A17				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1758DC7026-001				
	Quantity: 0				
	Amount: \$8,000.00				
	Percent: 5.58088				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Period of Performance: 07/09/2016 to 07/08/2017				
	Period of PeriorMance: 07/09/2016 to 07/08/2017				
NCN 7540 04 45	The state of the s	-		-	ODTIONAL FORMACO /4 cos

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		CONTRACT ID CODE	PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
004	See Block 16C	PR-0	AR-17-00817	EP-W-1	5-015
6. ISSUED BY CODE	HPOD	7. ADN	INISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R	ilding				
Washington DC 20460					
8. NAME AND ADDRESS OF CONTRACTOR (No., street AMEC ENVIRONMENT & INFRASTRUC Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	CTURE, INC.	9B. × 10A × EF	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) . MODIFICATION OF CONTRACT/ORDER $-W-16-015$ 04	NO.	
		10E	. DATED (SEE ITEM 13)		
CODE 038086125	FACILITY CODE	0	6/28/2016		
	11. THIS ITEM ONLY APPLIES	TO AMENDM	ENTS OF SOLICITATIONS		
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF of virtue of this amendment you desire to change an offe reference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If requires See Schedule 13. THIS ITEM ONLY APPLIES TO M	OFFERS PRIOR TO THE HOUR AN r already submitted , such change r is received prior to the opening hou iired)	ND DATE SPE may be made l ir and date spe	CIFIED MAY RESULT IN REJECTION OF Y by telegram or letter, provided each telegran	OUR OFFER. If n or letter makes	by
			ES SET FORTH IN ITEM 14 ARE MADE IN		
	CT/ORDER IS MODIFIED TO REFL I IN ITEM 14, PURSUANT TO THE	ECT THE ADI	MINISTRATIVE CHANGES (such as change OF FAR 43.103(b).		
D. OTHER (Specify type of modification	and authority)				
X FAR 52.232-22 Limita	*				
		ent and raturn	conice to the incu	ing office	
E.IMPORTANT: Contractor ⊠is not. 14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this modifica			N 255	(F)	
1.) De-obligate funding in t 16-17-C-58D5-102A45-2505-165		00.00	From LOA#		
2.) Obligate incremental fun TOCOR: Melissa Puchalski LIST OF CHANGES:	ding in the amount	t of \$10),000.00 to this task	order.	
Reason for Modification : Fu	nding Only Action				
CHANGES FOR LINE ITEM NUMBER					
Continued					
Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e document referenced in Item 9 A		etofore changed, remains unchanged and in NAME AND TITLE OF CONTRACTING OFF		
			hael C. Fox		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNE		INITED STATES OF AMERICA		16C. DATE SIGNED
132. SOMINGTONOTI ENOR	IVO. DATE SIGNE		THE STATES OF AMERICA	ELECTRONIC S:GNATURE	
(Signature of person authorized to sign)			(Signature of Contracting Officer)		05/08/2017

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED EP-W-16-015/0004/004
 PAGE 2
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	17-18-C-58D5-102A45-2505-1758DC7059-001				
	Beginning FiscalYear 17				
	Ending Fiscal Year 18				
	Fund (Appropriation) C				
	Budget Organization 58D5				
	Program (PRC) 102A45				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1758DC7059-001				
	Quantity: 0				
	Amount: \$10,000.00				
	Percent: 6.9761				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	CHANGES FOR ACCOUNTING CODE:				
	16-17-C-58D5-102A45-2505-1658DC6124-001				
	Amount changed from \$80,000.00 to \$70,000.00				
	Percent changed from 55.06835 to 0				
	Period of Performance: 07/09/2016 to 07/08/2017				

AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CO	ONTRACT	CONTRACT ID CODE	OF PAGES	
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE	4. REQUISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
P00005	See Bloo	ck 16C		EP-W-15	5-015
6. ISSUED BY CODE	HPOD		7. ADMINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460	ilding			_	
8. NAME AND ADDRESS OF CONTRACTOR (No., street	t, county, State and	ZIP Code)	9A. AMENDMENT OF SOLICITATION NO.		
AMEC ENVIRONMENT & INFRASTRUGATION: LISA DWYER AMEC FOSTER WHEELER ENVIRONM: 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	CTURE, II	NC.	9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORE EP-W-16-015 0004 10B. DATED (SEE ITEM 13)	DER NO.	
CODE 038086125	FACILITY COL	DE	06/28/2016		
	11. THIS ITI	 EM ONLY APPLIES TO AM	 MENDMENTS OF SOLICITATIONS		
Offers must acknowledge receipt of this amendment pure separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF 6 virtue of this amendment you desire to change an offer reference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If required)	pies of the amen to the solicitatio OFFERS PRIOR or already submit is received prior	dment; (b) By acknowled, n and amendment numbe TO THE HOUR AND DAT ted , such change may be to the opening hour and c	ging receipt of this amendment on each copy of rs. FAILURE OF YOUR ACKNOWLEDGEMENTE SPECIFIED MAY RESULT IN REJECTION Of made by telegram or letter, provided each teleg	the offer submitted; NT TO BE RECEIVED OF YOUR OFFER. If	or (c) By O AT
See Schedule	0000000000	Nec	Decrease.	7754.41	
-			. IT MODIFIES THE CONTRACT/ORDER NO. A		
			CHANGES SET FORTH IN ITEM 14 ARE MADE		
B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH			HE ADMINISTRATIVE CHANGES (such as cha ORITY OF FAR 43.103(b). THORITY OF:	nges in paying office	,
D. OTHER (Specify type of modification	***				
X FAR 52.232-22 Limita	tion of	Funds			
E. IMPORTANT: Contractor X is not.	is required t	o sign this document and	return copies to the	issuing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125					
The purpose of this modifica	t10N 1S	to de-obligat	e runding in the amount	OI \$934.4.	ı rom
this task order. TOCOR: Melissa Puchalski					
LIST OF CHANGES:					
	adiaa oa	1 7			
Reason for Modification : Fu Obligated Amount for this Mo		N ≡			
New Total Obligated Amount f			65.59		
Incremental Funded Amount ch		from			
\$108,000.00 to \$107,065.59	5				
CHANGES FOR LINE ITEM NUMBER	: 1				
Continued	_				
Except as provided herein, all terms and conditions of the	ne document refe	erenced in Item 9 A or 10A	, as heretofore changed, remains unchanged a	nd in full force and ef	fect.
15A. NAME AND TITLE OF SIGNER (Type or print)			16A. NAME AND TITLE OF CONTRACTING		
			Michael C. Fox		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	EL FOTRONIC S:GNATURE	16C. DATE SIGNED
(Signature of person authorized to sign)			(Signature of Contracting Officer)	3.ONATORE	10/11/2017

 CONTINUATION SHEET
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 OF

 EP-W-16-015/0004/P00005
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES (B)	QUANTITY UNIT	UNIT PRICE (E)	AMOUNT (F)
	Obligated Amount for this modification: -\$934.41 Incremental Funded Amount changed from \$108,000.00 to \$107,065.59			
	CHANGES FOR ACCOUNTING CODE: 17-18-C-58D5-102A45-2505-1758DC7059-001 Amount changed from \$10,000.00 to \$9,065.59			
	Period of Performance: 07/09/2016 to 07/08/2017			

	SOLICITATION/CON					EQUISITION N			PAGE C	1
2 CONTRACTA		O COMPLETE BLC	OCKS 12, 17, 23, 24,	& 30 4. ORDER NUMBER	I _{bk} .	-OAR-16				15
2. CONTRACT I EP-W-16	- 015		EFFECTIVE DATE	0005			5.	SOLICITATION NUMBI	EK	6. SOLICITATION ISSUE DATE
	OR SOLICITATION DRMATION CALL:	a. NAME Robert	Gray	aribus.		b. TELEPHONI 202-564		(No collect calls)	8. OFFER ET	DUE DATE/LOCAL TIME
9, ISSUED BY	To the second second second second	 	CODE H	POD	10. THIS ACQU	JISITION IS	X UNRI	ESTRICTED OR	SET ASIDE	: % FOR:
William 1200 Pe Mail Co	ronmental Pro Jefferson Cl nnsylvania Av de: 3803R ton DC 20460	inton Bui	gency lding		BUSINESS LI EDWOSB					
		DISCOUNT TERMS				water		13b. RATING		
MARKED SEE SO	ESS BLOCK IS CHEDULE				RATE	CONTRACT IS ED ORDER UN 3 (15 CFR 700)	DER	14. METHOD OF SOL		RFP
15. DELIVER TO)	CODE	OAR/OAP		16. ADMINISTE	ERED BY		1	CODE	
OAR/OAP US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460					Willian 1200 Pe Mail Co Washing	n Jeffe ennsylv ode: 3 gton DC	rson C ania A 803R 20460	otection A linton Bui venue, N. V	lding	
17a. CONTRACTOR/ CODE 038086125 FACILITY CODE					18a. PAYMENT	WILL BE MAD	E BY		CODE	TP FMC
TELEPHONE NO.	STER WHEELER : DR WAY, STE 1 LL PA 19422-1 (b)(4) FREMITTANCE IS DIFFERE	80 972		TRUCTURE,	RTP-Fir 109 TW www2.er Durham	ronmen hance C Alexan ba.gov/ NC 277	tal Preenter der Dr financ	ial/contrac	cts	BELOW
	I				IS CHEC	KED _	SEE ADDEN	NUM		
19. ITEM NO.		SCHEDUL	20. E OF SUPPLIES/SERVI	ICES		21. QUANTITY	22. UNIT	23. UNIT PRICE		24. AMOUNT
See Sche	ING AND APPROPRIATIO	rder is is. Prdering Part the base by reference to commence or shall part A State I technical ted June is se and/or Attach on DATA	sued in acc rocedures a contract t ce. The eff ce is July perform in ement of Wo 1 proposal 23, 2016 in	and hereby cerms and fective date 9, 2016. accordance ork (4 pages and cost es a the amount as Necessary)	e for with s) and stimate t of	DE ATTACH		TOTAL AWARD AMC \$111,86	50.00	
27a. SOLICI	RACT/PURCHASE ORDE	S BY REFERENCE R INCORPORATES	FAR 52,212-1, 52,21 RY REFERENCE E	12-4. FAR 52,212-3 A	ND 52.212-5 A	ARE ATTACH	ed. Adde Addenda	NDA	☐ ARE	ARE NOT ATTACHED.
28. CONTRA COPIES TO ALL ITEMS SHEETS SU	ACTOR IS REQUIRED TO ISSUING OFFICE. CON SET FORTH OR OTHER! JBJECT TO THE TERMS.	SIGN THIS DOCU TRACTOR AGREE MISE IDENTIFIED AND CONDITIONS	MENT AND RETURI S TO FURNISH AND ABOVE AND ON AN	N	[2 [I] 31a. UNITED	29. AWARD (DATED NCLUDING A	DF CONTRA NY ADDITIO CCEPTED A MERICA (SIGN	. YOUR OFF DNS OR CHANGES AS TO ITEMS: NATURE OF CONTRAC	WHICH ARE	
	D TITLE OF SIGNER (TY)			DATE-SIGNED	31b. NAME	OF CONTRA	CTING OFF	ICER (Type or print)		31c, DATE SIGNED
Kemp	Howell - Pro	ject Man	ager (0/29/16	Robert			- The state of the		06/30/2016

2										
19. ITEM NO.		20. SCHEDULE OF SUPPLIE	S/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PI		24. AMOUNT
	\$111,860.									
	This is a	Time-and-Materials	(T&M)) task orden	r					
	with a tota	al ceiling price o	f \$111	1,860, which	h the					
	Contractor	is not authorized	l to ex	xceed. The						
	Contractor	exceeds at its ow	m ris	k.						
	The total	obligated/funded a	mount	for this o	rder					
	is \$54,000	. This order is he	ereby :	incremental	ly					
	funded as detailed in Attachment B Summary of									
	Amounts and	d Ceilings. Attach	ment E	3 is hereby						
	incorporated (1 page).									
	 Contractin	g Officer's Repres	entati	ive (COR) fo	or					
	this task order:									
	Melissa Pu	chalski								
	(202) 343-	9882								
	puchalski.melissa@epa.gov									
	Alternate COR:									
	Greg Beachley									
	(202) 343-9621									
	beachley.g	regory@epa.gov								
	The service	es of this order a	are for	r severable.						
	TOCOR: Mel	issa Puchalski								
	Delivery:	06/15/2016								
	Period of	Performance: 07/09	9/2016	to 07/08/20	017					
	Continued									
32a. QUANTIT	Y IN COLUMN 21 HAS	NO. 1004								
RECEIV	ED INS	PECTED ACCEPTE	D, AND CO	NFORMS TO THE CO	NTRACT, E	EXCEPT AS I	NOTE	D: _		
32b. SIGNATUR	RE OF AUTHORIZED	GOVERNMENT REPRESENTATIV	Έ	32c. DATE	32d. PRIN	ITED NAME	AND 1	TITLE OF AUTH	ORIZED G	OVERNMENT REPRESENTATIVE
32e. MAILING A	ADDRESS OF AUTHO	RIZED GOVERNMENT REPRESEI	NTATIVE		32f. TELE	PHONE NUI	MBER	OF AUTHORIZ	ED GOVER	NMENT REPRESENTATIVE
					32g. E-MA	AIL OF AUTH	IORIZI	ED GOVERNME	ENT REPRE	ESENTATIVE
33. SHIP NUME	BER .	34. VOUCHER NUMBER	35 AMOU	NT VERIFIED	36. PAYM	ENT				37. CHECK NUMBER
oo. or iii monii	JEI (54. VOOCHER NOMBER	CORRECT		JO. FAIN	LINI				37. GILCK NOWBER
PARTIAL	FINAL	-			COV	MPLETE		PARTIAL [FINAL	
38. S/R ACCOL	JNT NUMBER	39. S/R VOUCHER NUMBER	40. PAID B	BY						
41a. I CERTIFY	THIS ACCOUNT IS (LORRECT AND PROPER FOR PAY	MENT		42a. RI	ECEIVED BY	' (Prim	")		
41b. SIGNATUR	RE AND TITLE OF CE	RTIFYING OFFICER	41	c. DATE						
						ECEIVED AT				
					42c. DA	ATE REC'D (YY/MN	1/DD)	42d. TOTA	L CONTAINERS

CONTINUATION SHEET REFERENCE NO. OF DOCUMENT BEING CONTINUED	REFERENCE NO. OF DOCUMENT BEING CONTINUED	PAGE O	
	EP-W-16-015/0005	3	15

NAME OF OFFEROR OR CONTRACTOR

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT	UNIT PRICE (E)	AMOUNT (F)
001	CASTNET V contract - new Task Order 0005 NH3 Eddy				
	Covariance Fluxes. Obligate \$54,000 in C				
	2016/2017 funds.				
	Incremental Funding				
	Melissa Puchalski #EP-W-16-015; TO:#0005				
	NH3 Eddy Covariance				
	\$54,000.00				
	102/00000				
	Accounting Info:				
	16-17-C-58D5-102A45-2505-1658DC6094-001 BFY: 16				
	EFY: 17 Fund: C Budget Org: 58D5 Program (PRC):				
	102A45 Budget (BOC): 2505 DCN - Line ID:				
	1658DC6094-001				
	Funding Flag: Partial Funded: \$54,000.00				
	runded. \$34,000.00				

Title: Support for Ammonia Eddy Covariance Flux Measurements

Contractor: Amec Foster Wheeler

Contract #: EP-W-16-015

Task Order #: 005

Period of Performance: 7/9/2016 to 7/8/2017

EPA Key Personnel

Task Order Project Officer (TOPO)/Contract Level Project Officer (PO):

Melissa Puchalski Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460

phone: (202) 343-9882

email: puchalski.melissa@epa.gov

Alternate TOPO:

Ralph Baumgardner National Exposure Research Laboratory (ORD/NERL/EMMD) 109 T.W. Alexander Drive Mail Code D343-05 Research Triangle Park, NC 27709

phone: (919) 541-4625

email: Baumgardner.ralph@epa.gov

Contracting Officer (CO):

Rob Gray

Contracting Officer Administrative Contract Service Center 1200 Pennsylvania Ave N.W.

Mail Code 3803R Washington DC 20460 *phone:* (202) 564-1698

email: gray.roberta@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural
 areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to provide support for ammonia (NH₃) eddy covariance flux measurements at the Duke Forest, NC research site. Two open-path NH₃ lasers will be deployed during a deposition study in the summer of 2017. Additionally, the Office of Research and Development (ORD) will support a gradient flux measurement system (MARGA) and ancillary measurements of micrometeorology, atmospheric chemistry, and soil/vegetation biogeochemistry. One of the open-path sensors will be positioned above the forest canopy to quantify net canopy-scale NH₃ fluxes. After a period of colocation to assess precision between the two instruments, the 2nd sensor will be positioned at the ground, below the forest understory, to quantify NH₃ exchange with the soil and leaf litter. A second objective of this study is to compare above-canopy eddy covariance NH₃ fluxes to fluxes measured with the MARGA gradient system. This work will support EPA's on-going efforts to directly measure NH₃ bi-directional fluxes within complex systems and to improve process oriented models of NH₃ air surface exchange.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in CLIN 22 of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Technical Proposal & Cost Estimate

The Contractor shall prepare a Task Order Proposal in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract.

2. Modification of Existing Open-Path Eddy Covariance (EC) Sensor

The Contractor shall work with the subcontractor to modify the existing open-path NH₃ sensor as needed prior to the start of the 2017 field campaign. Preparation for the field campaign includes sensor calibration and assessment of instrument QA/QC relevant to EC flux measurements.

3. Construction of 2nd Open-Path Sensor

The contractor shall oversee the development of a second open path NH₃ sensor for deployment during the 2017 field campaign. The second open path sensor will be built with the same specifications as the existing sensor including any upgrades implemented for the 2017 field study. Design features of the 2nd sensor that deviate from the upgraded original sensor should be discussed with EPA prior to implementation.

4. Field Campaign

The two open-path NH₃ EC systems will be deployed at Duke Forest during the summer of 2017. The contractor shall provide support to the subcontractor while the open path sensors are deployed in the field. The subcontractor shall operate the sensors for one month in 2017. A subcontractor shall be on-site to operator the open path sensor during the field canopy. One of the open-path sensors will be positioned above the forest canopy to quantify net canopy-scale NH₃ fluxes. After a period of colocation to assess precision between the two instruments, the 2nd sensor will be positioned at the ground, below the forest understory, to quantify NH₃ exchange with the soil and leaf litter. Additionally, the Office of Research and Development (ORD) will deploy a gradient flux measurement system (MARGA) to quantify atmospheric concentrations and air-surface exchange of NH₃ and other trace gases and particles. ORD will also support ancillary measurements of micrometeorology, atmospheric chemistry, and soil/vegetation biogeochemistry.

The subcontractor shall QA/QC all data collected from the open path NH₃ sensor. A database of the flux measurements and all QA/QC data shall be provided to EPA at the conclusion of the study.

V. DELIVERABLES AND SCHEDULE

1. Proposal

The contractor shall deliver a Task Order Proposal in accordance with clause B.7 Task Order Ordering Procedures of the contract. The proposal shall be submitted 10 days after receipt of the SOW.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.3 Reports of Work and F.5 Monthly Progress Report. Reports shall be delivered electronically.

3. Database

The contractor shall deliver a database with valid data (concentration + flux) and all QA/QC data reported during the 2017 field campaign. The database shall be delivered 90 days after the final measurement is taken.

4. Publication

Within 9-months after the final database is delivered to EPA, the contractor shall complete a draft manuscript, with assistance from EPA collaborators, summarizing the results of the field study.

Distribution of Deliverables:

Addressee	Copies
EPA Contracting Officer (Rob Gray)	1
EPA Project Officer (Melissa Puchalski)	1
EPA Alternate (Ralph Baumgardner)	1
EPA Technical Advisor (John T Walker)	1

ATTACHMENT B SUMMARY OF AMOUNTS AND CEILINGS

Total Funding/Obligation Amount					
Period	This Action		Amount		
Base Period	\$54,000		\$54,000		
Total	\$54,000		\$54,000		

Total Task Order Ceiling					
Period	This Action		Amount		
Base Period	\$111,860		\$111,860		
Total	\$111,860		\$111,860		

NOTE: This task order is hereby incrementally funded. The Contractor exceeds funding at its own risk.

This task order requires \$57,860.00 to be fully funded.

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	LUISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
001	 See Block 16C	PR-0	RD-16-02552	EP-W-1	6-015
6. ISSUED BY CODE	HPOD	7. ADN	MINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R	ilding				
Washington DC 20460	county State and ZIP Code)	la _A	AMENDMENT OF SOLICITATION NO		
8. NAME AND ADDRESS OF CONTRACTOR (No., street AMEC ENVIRONMENT & INFRASTRUCA Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY (b)(4) BLUE BELL PA 194221960	CTURE, INC.	9B. × 10/2 × EF	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER W-16-015 D5 B. DATED (SEE ITEM 13)	R NO.	
CODE 038086125	FACILITY CODE	-	6/28/2016		
	11. THIS ITEM ONLY APPLIES		- 20		
Offers must acknowledge receipt of this amendment p flems 8 and 15, and returning cop separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF (virtue of this amendment you desire to change an offereference to the solicitation and this amendment, and	oies of the amendment; (b) By ack to the solicitation and amendment OFFERS PRIOR TO THE HOUR A r already submitted , such change	nowledging red t numbers. FA ND DATE SPE may be made l	eipt of this amendment on each copy of the ILURE OF YOUR ACKNOWLEDGEMENT CIFIED MAY RESULT IN REJECTION OF by telegram or letter, provided each telegrar	offer submitted; TO BE RECEIVE YOUR OFFER If	or (c) By D AT
12. ACCOUNTING AND APPROPRIATION DATA (If required Schedule	#40 Efficience #40	Net Inc	rease:	\$30,000.0	
	CT/ORDER IS MODIFIED TO REF I IN ITEM 14, PURSUANT TO THE	LECT THE ADI E AUTHORITY	ES SET FORTH IN ITEM 14 ARE MADE IN MINISTRATIVE CHANGES (such as change OF FAR 43.103(b). TY OF:		
D. OTHER (Specify type of modification	and authority)				
X Funding Only Action					
E. IMPORTANT: Contractor 🗵 is not.	is required to sign this docume	ent and return	copies to the issu	ing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this administ amount of \$30,000.00. All other items remain uncha	rative modificati				in the
Contracting Officer: Anthony Terrell 202-487-034 Contracting Officer's Repres Melissa Puchalski 202-343-9	entative (COR):				
Continued Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e document referenced in Item 9 A	16A. I	retofore changed, remains unchanged and in NAME AND TITLE OF CONTRACTING OF the hony Terrell		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGN		UNITED STATES OF AMERICA	ELECTRONIC	16C. DATE SIGNED
(Signature of person authorized to sign)		-	(Signature of Contracting Officer)	SIGNA HIRE	10/20/2016

 CONTINUATION SHEET
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 OF

 EP-W-16-015/0005/001
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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	Alternate COR:				
	Greg Beachley 202-343-9621				
	beachley.gregory@epa.gov				
	The services of this order are for severable.				
	TOCOR: Melissa Puchalski				
	TION OF CURVORS				
	LIST OF CHANGES: Reason for Modification : Funding Only Action				
	Obligated Amount for this Modification: \$30,000.00				
	New Total Obligated Amount for this Award:				
	\$84,000.00				
	Incremental Funded Amount changed: from				
	\$54,000.00 to \$84,000.00				
	The state of the s				
	Contracting Officer changed				
	from Robert A Gray				
	to Anthony Terrell				
	CHANCES FOR LINE THEM NUMBER. 1				
	CHANGES FOR LINE ITEM NUMBER: 1 Obligated Amount for this modification: \$30,000.00				
	Incremental Funded Amount changed from \$54,000.00				
	to \$84,000.00				
	20 40.7,000.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	16-17-C-26CF000-301FK8-2532-26A6A-1626CFE132-002				
	Beginning FiscalYear 16				
	Ending Fiscal Year 17				
	Fund (Appropriation) C				
	Budget Organization 26CF000				
	Program (PRC) 301FK8				
	Budget (BOC) 2532				
	Job # (Site/Project)				
	Cost Organization 26A6A				
	DCN-LineID 1626CFE132-002 Quantity: 0				
	Amount: \$9,997.80				
	Percent: 8.93778				
	Subject To Funding: N				
	Payment Address:				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	16-17-C-26CF000-101FK6XR1-2532-26A6A-1626CFE132-00				
	Continued				

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	1				
	Beginning FiscalYear 16				
	Ending Fiscal Year 17				
	Fund (Appropriation) C				
	Budget Organization 26CF000				
	Program (PRC) 101FK6XR1				
	Budget (BOC) 2532				
	Job # (Site/Project)				
	Cost Organization 26A6A				
	DCN-LineID 1626CFE132-001				
	Quantity: 0				
	Amount: \$20,002.20				
	Percent: 17.88146				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Delivery: 06/15/2016				
	Delivery Location Code: OAR/OAP				
	OAR/OAP				
	US Environmental Protection Agency				
	1200 Pennsylvania Avenue NW				
	Mail Code: 62101J				
	OAR/OAP				
	Washington DC 20460 USA				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				

AMENDMENT OF SOLICITATION/MODIFICA		1. CONTRACT ID CODE	OF PAGES		
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. REQ	UISITION/PURCHASE REQ. NO.	5. PROJECT	NO. (If applicable)
002	See Block 16C	PR-0	RD-17-00586	EP-W-1	6-015
6. ISSUED BY CODE	HPOD	7. ADN	MINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460	Agency ilding				
8. NAME AND ADDRESS OF CONTRACTOR (No., street	county State and ZIP Code		AMENDMENT OF SOLICITATION NO.		
AMEC ENVIRONMENT & INFRASTRUCATION LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 b)(4) BLUE BELL PA 194221960	CTURE, INC.	9B. × 10/2 EF	DATED (SEE ITEM 11) . MODIFICATION OF CONTRACT/ORDER 105 B. DATED (SEE ITEM 13)	NO.	
CODE 038086125	FACILITY CODE		6/28/2016		
201 DE CE D D F 7727	11. THIS ITEM ONLY APPLIES				
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF (virtue of this amendment you desire to change an offe reference to the solicitation and this amendment, and	oies of the amendment; (b) By ack to the solicitation and amendment OFFERS PRIOR TO THE HOUR A r already submitted , such change is received prior to the opening hou	nowledging red t numbers. FA ND DATE SPE may be made l	eipt of this amendment on each copy of the ILURE OF YOUR ACKNOWLEDGEMENT T CIFIED MAY RESULT IN REJECTION OF Y by telegram or letter, provided each telegran	offer submitted ; O BE RECEIVE OUR OFFER If	or (c) By D AT
12. ACCOUNTING AND APPROPRIATION DATA (If requise See Schedule	uired)	Net Inc	rease:	\$27,860.0	00
Statement of Charles and Charl	ODIEICATION OF CONTRACTS/O	PNEPS IT MC	DDIFIES THE CONTRACT/ORDER NO. AS D	NESCRIBED IN IT	FEM 14
	CT/ORDER IS MODIFIED TO REFI I IN ITEM 14, PURSUANT TO THE	LECT THE ADI E AUTHORITY	ES SET FORTH IN ITEM 14 ARE MADE IN MINISTRATIVE CHANGES (such as change OF FAR 43.103(b). TY OF:		
D. OTHER (Specify type of modification	and authority)				
X FAR 43.103(b) - Unil	ateral Modificati	.on			
E. IMPORTANT: Contractor 🗵 is not.	<u> </u>		copies to the issu	ing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this modifica \$27,860.00. The total fundin \$84,000 to \$111,860.00. This TOCOR: Melissa Puchalski	tion is to obliga g of this task or	te incre der is l	emental funding in the nere by increased by \$	amount	
LIST OF CHANGES: Reason for Modification: Fu Obligated Amount for this Mo Continued Except as provided herein, all terms and conditions of th 15A. NAME AND TITLE OF SIGNER (Type or print)	dification: \$27,8	60.00 A or 10A, as her 16A. I	retofore changed, remains unchanged and in NAME AND TITLE OF CONTRACTING OFF hael C. Fox		
15B. CONTRACTOR/OFFEROR	15C. DATE SIGN		UNITED STATES OF AMERICA	ELECTRONIC S:GNATURE	16C. DATE SIGNED
(Signature of person authorized to sign)		- 6	(Signature of Contracting Officer)		02/15/2017

(Signature of person authorized to sign)

 CONTINUATION SHEET
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 OF

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NAME OF OFFEROR OR CONTRACTOR

AMOUNT	UNIT PRICE		QUANTITY	SUPPLIES/SERVICES	TEM NO.
(F)	(E)	(D)	(C)	(B)	(A)
				New Total Obligated Amount for this Award:	
				\$111,860.00	
				Incremental Funded Amount changed: from	
				\$84,000.00 to \$111,860.00	
				Buyer changed	
				from Anthony Terrell	
				to Michael C Fox	
				Contracting Officer changed	
				from Anthony Terrell	
				1	
				to Michael C Fox	
				CHANGES FOR LINE ITEM NUMBER: 1	
				Obligated Amount for this modification: \$27,860.00	
				Incremental Funded Amount changed from \$84,000.00	
				to \$111,860.00	
				CO VIII,000.00	
				NEW ACCOUNTING CODE ADDED:	
				Account code:	
				17-18-C-26CF000-102FK6XR2-2532-26A6A-1726CFE016-00	
				1	
				Beginning FiscalYear 17	
				Ending Fiscal Year 18	
				Fund (Appropriation) C	
				Budget Organization 26CF000	
				Program (PRC) 102FK6XR2	
				Budget (BOC) 2532	
				=	
				Job # (Site/Project)	
				Cost Organization 26A6A	
				DCN-LineID 1726CFE016-001	
				Quantity: 0	
				Amount: \$27,860.00	
				Percent: 24.90613	
				Subject To Funding: N	
				Payment Address:	
				RTP Finance Center	
				US Environmental Protection Agency	
				RTP-Finance Center (AA216-01)	
				109 TW Alexander Drive	
				www2.epa.gov/financial/contracts	
				Durham NC 27711	
				Continued	
				concinued	

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Payment:				
	RTP Finance Center US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				

AMENDMENT OF SOLICITATION/MODIF	ONTRACT	CONTRACT ID CODE	OF PAGES		
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE	DATE 4	REQUISITION/PURCHASE REQ. NO.	5. PROJECT	2 [NO. (If applicable)
P00003	See Blo	ck 16C		EP-W-1	6-015
6. ISSUED BY COI	DE HPOD	17	. ADMINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protectio William Jefferson Clinton 1200 Pennsylvania Avenue, Mail Code: 3803R	Building			_	
Washington DC 20460	rest sounty State and	17/D Code)	TO A AMENDMENT OF SOLICITATION NO		
8. NAME AND ADDRESS OF CONTRACTOR (No., si AMEC ENVIRONMENT & INFRASTE Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRON 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	RUCTURE, I	· \(\lambda\)	9B. DATED (SEE ITEM 11)		
CODE 038086125	FACILITY COI	DE	06/28/2016		
29 20, 00, 0 2 0 00000 TOT	11. THIS IT	EM ONLY APPLIES TO AM	ENDMENTS OF SOLICITATIONS		
separate letter or telegram which includes a refere THE PLACE DESIGNATED FOR THE RECEIPT C virtue of this amendment you desire to change an reference to the solicitation and this amendment, at 12. ACCOUNTING AND APPROPRIATION DATA (If See Schedule	OF OFFERS PRIOR offer already submit and is received prior required)	t TO THE HOUR AND DATE tted , such change may be r to the opening hour and da N⊖t	SPECIFIED MAY RESULT IN REJECTION nade by telegram or letter, provided each tele	OF YOUR OFFER Its egram or letter makes	1 7
			HANGES SET FORTH IN ITEM 14 ARE MAD		
B. THE ABOVE NUMBERED CONTI appropriation date, etc.) SET FOI C. THIS SUPPLEMENTAL AGREEM			E ADMINISTRATIVE CHANGES (such as ch RITY OF FAR 43.103(b). HORITY OF:	anges in paying offic	9,
D. OTHER (Specify type of modifical	ion and authority)				
X FAR 52.232-22 Limi	tation of	Funds			
E. IMPORTANT: Contractor X is not	. ais required	to sign this document and re	eturn copies to the	issuing office.	
The purpose of this modification this task order. LIST OF CHANGES: Reason for Modification: 1 Obligated Amount for this I	cation is Funding On	to de-obligate	e funding in the amount		.17 from
New Total Obligated Amount Incremental Funded Amount (\$111,860.00 to \$110,380.83 CHANGES FOR LINE ITEM NUMB)	changed:	Award: \$110,38 from	80.83		
Continued					
Except as provided herein, all terms and conditions of 15A. NAME AND TITLE OF SIGNER (Type or print)	of the document refe		as heretofore changed, remains unchanged as heretofore changed of the contracting the contract		
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA		16C. DATE SIGNED
(Signature of person authorized to sign)			$\frac{\int_{-1}^{1} \langle \chi^{2} \rangle \langle \chi_{2} \rangle + \int_{-1}^{1} \langle \chi_{3} \rangle}{\langle Signature \ of \ Contracting \ Officer}$	FL FCTRONIC S:GNATURE	11/03/2017

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 OF

 EP-W-16-015/0005/P00003
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NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY UNIT	UNIT PRICE	AMOUNT
(A)	(B)	(C) (D)		(F)
	Obligated Amount for this modification: -\$1,479.17			
	Incremental Funded Amount changed from			
	\$111,860.00 to \$110,380.83			
	CHANGES FOR ACCOUNTING CODE:			
	17-18-C-26CF000-102FK6XR2-2532-26A6A-1726CFE016-00			
	1			
	Amount changed from \$27,860.00 to \$26,380.83			
	Payment:			
	RTP Finance Center			
	US Environmental Protection Agency			
	RTP-Finance Center (AA216-01)			
	109 TW Alexander Drive			
	www2.epa.gov/financial/contracts			
	Durham NC 27711			
	FOB: Destination			
	Period of Performance: 07/09/2016 to 07/08/2017			
NCN 7540 04 450				ORTIONAL SORMOOD (4.00)

	SOLICITATION/CON	TRACT/ORDE			L ITEN	IS	I .	REQUISITION NO $R-0$ AR -1 6		i	PAGE C	DF 15	
2. CONTRACT	NO,	- COMITETE DEC	3. AWARD/		RDER NUM	MBER			5 10 10 10 10 10 10 10 10 10 10 10 10 10	SOLICITATION NUMBE		6, SOLICITATION	
EP-W-16	0-012		EFFECTIVE DAT	00	06							ISSUE DATE	
	OR SOLICITATION ORMATION CALL:	a.NAME Robert	Gray	l		, V		b. TELEPHONE 202-564		(No collect calls)	8. OFFER ET	DUE DATE/LOCAL TIME	
9, ISSUED BY	,		CODE	HPOD	0.00		10. THIS ACC	SI MOITISIUS	X UNR	ESTRICTED OR	SET ASIDE	: % FOR:	
HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460							SMALL BUSINESS WOMEN-OWNED SMALL BUSINESS (WOSB) ELIGIBLE UNDER THE WOMEN-OWNED SMALL BUSINESS NAICS: 541620 SIZE STANDARD: \$15.0						
11. DELIVERY FOR FOB DESTINA- TION UNLESS BLOCK IS							П 13а ТЫ	S CONTRACT IS	ε Δ	13b. RATING			
MARKED SEE SCHEDULE							RATED ORDER UNDER DPAS (15 CFR 700)			A STATE OF STREET STATE OF THE STATE OF	14. METHOD OF SOLICITATION		
15. DELIVER TO		CODE	OAR/OAP	10.			16. ADMINIS		*	□RFQ □	CODE I	I RFP	
OAR/OAP US Environmental Protection Agency 1200 Pennsylvania Avenue NW Mail Code: 62101J OAR/OAP Washington DC 20460							HPOD US Environmental Protection Agency William Jefferson Clinton Building 1200 Pennsylvania Avenue, N. W. Mail Code: 3803R Washington DC 20460						
17a. CONTRAC	TOR/ CODE 0.3	8086125	FACILITY CODE		1.			IT WILL BE MAD			CODE	RTP FMC	
AMEC FOSTER WHEELER ENVIRONMENT & INFRASTRUCTURE, INC. 751 ARBOR WAY, STE 180 BLUE BELL PA 19422-1972 (b)(4) TELEPHONE NO.							RTP Finance Center US Environmental Protection Agency RTP-Finance Center (AA216-01) 109 TW Alexander Drive www2.epa.gov/financial/contracts Durham NC 27711						
17b. CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER							18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED SEE ADDENDUM						
19. ITEM NO.			20. E OF SUPPLIES/SE			I	IS CHE	21. QUANTITY	22.	23. UNIT PRICE		24.	
DUNS Number: 038086125 This task order is issued in accordance with the Task Order Ordering Procedures and hereby incorporates the base contract terms and conditions by reference. The effective date for performance to commence is July 9, 2016. The Contractor shall perform in accordance with the Attachment A Statement of Work (4 pages) and the accepted technical proposal and cost estimate (7 pages) dated June 23, 2016 in the amount of (Use Reverse and/or Attach Additional Sheets as Necessary) 25. ACCOUNTING AND APPROPRIATION DATA See Schedule 26. TOTAL AWARD AMOUNT (For \$1.32, 473.00) 27. SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 ARE ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED. ADDENDA ARIANGE ORDER INCORPORATES BY REFERENCE FAR 52.212-5 IS ATTACHED.											AMOUNT Nvt. Use Only) ARE NOT ATTACHED. ARE NOT ATTACHED.		
☐ 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED. 30a. SIGNATURE OF OFFEROR/CONTRACTOR							DATED YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS: 31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)						
(S) I should							LUCTHOMIC SIGNATURE						
30b. NAME AN	ower signification	ect Mana	ger 30	DC. DATE	SIGNED 30	$I \cap I$	PROPERTY OF THE PROPERTY OF TH	OF CONTRA		ICER (Type or print)		31c. DATE SIGNED 07/05/2016	

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19. ITEM NO.		20. SCHEDULE OF SUPPLIE	S/SERVICES			21. QUANTITY	22. UNIT	23. UNIT PI	RICE	24. AMOUNT	
	\$132,473.										
	This is a '	Time-and-Materials	(T&M)) task orde	r						
	with a total ceiling price of \$132,473, which the										
	Contractor	is not authorized	l to ex	xceed. The							
	Contractor	exceeds at its ow	n ris	k.							
	The total	obligated/funded a	mount	for this or	rder						
	is \$60,000	. This order is he	ereby i	incremental	ly						
	funded as	detailed in Attach	ment E	3 Summary o	f						
	1	d Ceilings. Attach	ment E	3 is hereby							
	incorporate	ed (1 page).									
	Contractin	g Officer's Repres	ontat	ive (COP) fo	0r						
	this task		circaci	ive (con) i	O.L						
	Greg Beach										
	(202) 343-										
		regory@epa.gov									
	Alternate	COR:									
	Melissa Pu	chalski									
	(202) 343-	9882									
	puchalski.	melissa@epa.gov									
	The service	es of this order a	are for	r severable							
	Delivery:										
	Period of	Performance: 07/09	9/2016	to 07/08/20	021						
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32b. SIGNATUI	RE OF AUTHORIZED	GOVERNMENT REPRESENTATIV		32c. DATE			eranan era		ORIZED GO	OVERNMENT REPRESENTATIVE	
32e. MAILING A	ADDRESS OF AUTHO	RIZED GOVERNMENT REPRESE	NTATIVE		32f. TELE	PHONE NUI	MBER	OF AUTHORIZ	ED GOVER	NMENT REPRESENTATIVE	
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38. S/R ACCOL	8. S/R ACCOUNT NUMBER 39. S/R VOUCHER NUMBER 40. PAID BY										
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42c. [42c. D <i>F</i>	ATE REC'D (YY/MN	M/DD)	42d. TOTA	L CONTAINERS		

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CONTINUATION SHEET	EP-W-16-015/0006	3	15			

NAME OF OFFEROR OR CONTRACTOR

EM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	funding of \$60,000.				
	New TO				
	Greg Beachley #EP-W-16-015; TO:#0006				
	Non-Routine Maintenance and Repairs of CASTNET				
	Equipment				
	\$60,000.00				
	Accounting Info:				
	16-17-C-58D5-102A45-2505-1658DC6095-001 BFY: 16				
	EFY: 17 Fund: C Budget Org: 58D5 Program (PRC): 102A45 Budget (BOC): 2505 DCN - Line ID:				
	1658DC6095-001				
	Funding Flag: Partial				
	Funded: \$60,000.00				

Title: Non-routine Maintenance and Repairs of

CASTNET Equipment

Contractor: AMEC Foster Wheeler, Inc.

Contract #: EP-W-16-015

Task Order #: 0006

Period of Performance: 7/9/2016 – 7/8/2017

Estimated Level of Effort: 434 hours

EPA Key Personnel

Task Order Project Officer (TOPO):

Greg Beachley Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9621

email: beachley.gregory@epa.gov

Alternate Task Order Project Officer/Project Officer (PO):

Melissa Puchalski Clean Air Markets Division (OAP/OAR/CAMD) 1200 Pennsylvania Ave., NW Mail Code 6204M Washington, DC 20460 phone: (202) 343-9882

phone. (202) 343-7002

email: puchalski.melissa@epa.gov

Contracting Officer (CO):

Robert A. Gray
Contracting Officer
Administrative Contract Service Center
1200 Pennsylvania Ave N.W.
Mail Code 3803R
Washington DC 20460
phone: (202) 564-1698

email: Gray.RobertA@epa.gov

STATEMENT OF WORK

I. INTRODUCTION

The Clean Air Status and Trends Network (CASTNET) is a long-term environmental monitoring network that measures changes in ambient air quality and assesses atmospheric deposition over broad geographic regions of the U.S. (https://www.epa.gov/castnet). Operating since 1987, CASTNET has evolved into a robust regional monitoring program which currently consists of approximately 95 monitoring stations nationwide. The Environmental Protection Agency (EPA) coordinates the operation of the network in cooperation with numerous federal, tribal, state and local partners.

The primary monitoring objectives of CASTNET are to:

- Provide high quality data on atmospheric deposition, rural ground level ozone and other forms of atmospheric pollution;
- Support the primary and secondary ozone NAAQS and provide data on NAAQS compliance in rural areas;
- Monitor the status and trends in regional air quality and atmospheric deposition;
- Assess and report on geographic patterns and long-term, temporal trends in ambient air pollution and atmospheric deposition;
- Improve our understanding of PM and ozone formation;
- Validate and improve atmospheric models;
- Provide data for health-based research and epidemiology studies;
- Assess the effectiveness of EPA's emission reduction programs; and
- Support science and ecosystem studies.

CASTNET sites measure weekly average concentrations of sulfate (SO₄²⁻), nitrate (NO₃⁻), ammonium (NH₄⁺), sulfur dioxide (SO₂), nitric acid (HNO₃), chloride (Cl⁻) and the base cations (Na⁺, K⁺, Mg²⁺and Ca²⁺) using a 3-stage filter pack. In addition, each site may make ancillary measurements, including hourly ozone (O₃), hourly meteorology, ammonia (NH₃) gas using passive devices, and trace-level gases. Trace-level gas monitors include reactive oxidized nitrogen (NOy), nitric oxide (NO), sulfur dioxide (SO₂) and carbon monoxide (CO). CASTNET O₃, meteorological, and trace gas measurements follow the requirements in the Code of Federal Regulations (CFR) and EPA's Quality Assurance Handbook.

II. PURPOSE

The primary purpose of this task order is to perform non-routine maintenance on CASTNET equipment and infrastructure repairs due to unforeseen circumstances, including errors or faulty parts/equipment on the part of manufacturers, or the discontinuation of measurements at current monitoring sites. This work should be considered out of scope from the routine operations task order in place for the CASTNET bridge contract (Task Order 0003 and Task Order 0004), which

covers routine, expected maintenance. The TOPO will provide technical direction for performing specific tasks under this task order.

III. CONTRACT LEVEL STATEMENT OF WORK REFERENCE

The tasks to be performed under this task order are consistent with the activities authorized in Task 22 (Level of Effort) of the contract's Statement of Work.

IV. TECHNICAL DIRECTION

1. Prepare a Proposal

The Contractor shall prepare a Task Order Proposal and Cost Estimate in accordance with the terms and conditions of contract clauses B.2 entitled Fixed Rates for Services – Indefinite delivery/Indefinite quantity contract, using time and materials with a cost ceiling, and will submit it to EPA.

2. Perform Non-Routine Maintenance and Repairs

2.1 Remote Monitoring and Control of Shelter Temperatures

Shelter temperatures are important for the proper operation of measurement equipment installed at CASTNET sites. Additionally, shelter temperatures must be monitored and controlled to adhere to the rigorous quality assurance standards for regulatory measurements under the National Ambient Air Quality Standards (NAAQS).

In order to provide the highest quality data, it is important to operate continuous gas analyzers at a stable temperature. Due to the remote location of CASTNET sites, it can be impractical to maintain an appropriate set point during rapidly changing ambient conditions. In order to provide improved temperature regulation, the contractor will upgrade the heating and cooling systems to enable remote monitoring and control at approximately 40 sites during the semiannual calibration site visits. Site upgrades will be prioritized based on the equipment at the site, the complexity of the update, and the urgency for improvement. It is expected that approximately 30 sites will require re-wiring and replacement of the shelter thermostat using solid-state relays under data logger control. The remaining sites are expected to require a combination of circuit breaker replacement to modify circuit voltage, electrical outlet replacement, and air conditioning unit replacement in addition to replacement of the shelter thermostat using solid-state relays.

2.2 Repair of CASTNET shelter

The site shelter enclosures themselves are important to allow for proper operating conditions to be maintained to meet rigorous quality assurance standards for regulatory NAAQS measurements. Most of the shelters in the network have been in place for upwards of 10 years or more. They are subject to normal wear and tear and also exposed to harsh weather conditions that may cause significant damage over time. Cost analyses show that repair of these shelters is much more cost-effective than a replacement. The contractor will monitor shelters for repair needs and arrange and conduct the repairs

when needed. The repairs will range from minor maintenance to major repairs such as roof or floor replacements. Repairs should be made in a way to minimize their impact on the sampling schedule.

2.3 Disposition of MET sensors and equipment

Over time, CASTNET equipment becomes unusable due to malfunctions, normal wear from routine use, or obsolete technology. The contractor is tasked with collecting that equipment and storing it until the point in which it is no longer of any potential use in the network. At that point, unusable equipment should be disposed of properly. The contractor shall oversee the development of a plan to dispose of unusable equipment. That plan should include an inventory of each piece of equipment with an EPA property decal prior to removal of the decal. Also, any hardware that may potentially contain any agency-sensitive information should be sanitized prior to its inclusion in the 'EPA-property disposition plan'.

2.4 Additional Maintenance/Repairs

Additional technical direction will be given as other non-routine maintenance and repairs arise on CASTNET equipment and infrastructure.

V. DELIVERABLES

1. Proposal

The contractor shall deliver a Task Order Proposal in accordance with clause B.7 Task Order Ordering Procedures of the contract.

2. Monthly Progress Report

The contractor shall prepare and submit a monthly progress report by the 15th of each month summarizing the progress made, issues encountered or expected, work planned for the next reporting period and costs. These reports shall comply with contract clauses F.3 Reports of Work and F.5 Monthly Progress Report. Reports shall be delivered electronically.

Additional deliverables may be required as part of future technical direction.

VI. SCHEDULE

The task order proposal shall be delivered within 10 days of issuance of this task order.

Distribution of Deliverables:

Addressee	Copies
EPA Contracting Officer (Robert Gray)	1
EPA TOPO (Greg Beachley)	1
EPA Alternate TOPO/PO (Melissa Puchalski)	1

ATTACHMENT B SUMMARY OF AMOUNTS AND CEILINGS

Total Funding/Obligation Amount							
Period	This Action		Amount				
Base Period	\$60,000		\$60,000				
Total	\$60,000		\$60,000				

Total Task Order Ceiling							
Period	This Action		Amount				
Base Period	\$132,473		\$132,473				
Total	\$132,473		\$132,473				

NOTE: This task order is hereby incrementally funded. The Contractor exceeds funding at its own risk.

This task order requires \$72,473 to be fully funded.

AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTR	ACT	1. CONTRACT ID CODE	PAGE	OF PAGES
2. AMENDMENT/MODIFICATION NO.	3. EFFECTIVE DATE	4. R	 EQUISITION/PURCHASE REQ. NO.	5. PROJECT N	NO. (If applicable)
001	08/01/2016	PR-	-OAR-16-01197	EP-W-16	
6. ISSUED BY CODE	HPOD	7. A	DMINISTERED BY (If other than Item 6)	CODE	
HPOD US Environmental Protection William Jefferson Clinton Bu 1200 Pennsylvania Avenue, N. Mail Code: 3803R Washington DC 20460	Agency ilding				
8. NAME AND ADDRESS OF CONTRACTOR (No., street	county State and ZIP Cod	(a)	9A. AMENDMENT OF SOLICITATION NO.		
AMEC ENVIRONMENT & INFRASTRUCATION (No. sneet) Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	CTURE, INC.	x	OB. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/ORDEF EP-W-16-015 0006 10B. DATED (SEE ITEM 13)	R NO.	
CODE 038086125	FACILITY CODE		06/29/2016		
	11, THIS ITEM ONI	Y APPLIES TO AMEN	DMENTS OF SOLICITATIONS		
Offers must acknowledge receipt of this amendment p flems 8 and 15, and returning cop separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF 0 virtue of this amendment you desire to change an offereference to the solicitation and this amendment, and	oies of the amendment; to the solicitation and a DFFERS PRIOR TO TH r already submitted, su	(b) By acknowledging mendment numbers. E HOUR AND DATE S ch change may be mad	receipt of this amendment on each copy of the FAILURE OF YOUR ACKNOWLEDGEMENT PECIFIED MAY RESULT IN REJECTION OF de by telegram or letter, provided each telegrar	offer submitted; o TO BE RECEIVED YOUR OFFER If b	r (c) By AT
12. ACCOUNTING AND APPROPRIATION DATA (If requires Schedule	and a street of the street of	National States - Material - Advantage Pri	crease:	\$50,000.00	
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D. OTHER (Specify type of modification	1.00				
X FAR 43.103(b) Unilat	eral Modifio	cation			
E. IMPORTANT: Contractor X is not.	is required to sign t	his document and retu	n copies to the issi	uing office.	
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125 The purpose of this modifica \$50,000.00. The Contracting Officer has All other items remain uncha	tion is to c	bligate inc	remental funding in the		f
Contracting Officer: Anthony Terrell 202-564-264	0 terrell.a		gov		
Contracting Officer's Repres					
Greg Beachley 202-343-9621	beachley.	gregory@epa	.gov		
Continued	a da auro - at - a	in Item C A 104	haratafara ahang-dti tititititititit	in full for	
Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e document referenced	16	heretofore changed, remains unchanged and A. NAME AND TITLE OF CONTRACTING OF nthony Terrell		
15B. CONTRACTOR/OFFEROR	15C. D		B. UNITED STATES OF AMERICA	ELECTRONIC	16C. DATE SIGNED
(Signature of person authorized to sign)		-	(Signature of Contracting Officer)	SIGNATINE	08/01/2016
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NAME OF OFFEROR OR CONTRACTOR

EM NO.	SUPPLIES/SERVICES	QUANTITY	UNIT	UNIT PRICE	AMOUNT
A)	(B)	(C)	(D)	(E)	(F)
	Alternate COR:				
	Melissa Puchalski 202-343-9882				
	puchalski.melissa@epa.gov				
	TOCOR: Greg Beachley				
	LIST OF CHANGES:				
	Reason for Modification : Funding Only Action				
	Obligated Amount for this Modification: \$50,000.00				
	New Total Obligated Amount for this Award:				
	\$110,000.00				
	Contracting Officer changed				
	from Robert A Gray				
	to Anthony Terrell				
	co imenony refrest				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Obligated Amount for this modification: \$50,000.00				
	Incremental Funded Amount changed from \$60,000.00				
	to \$110,000.00				
	10,000.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	16-17-C-58D5-102A45-2505-1658DC6125-001				
	Beginning FiscalYear 16				
	Ending Fiscal Year 17				
	Fund (Appropriation) C				
	Budget Organization 58D5				
	Program (PRC) 102A45				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1658DC6125-001				
	Quantity: 0				
	Amount: \$50,000.00				
	Percent: 37.74354				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	Delivery: 06/22/2016				
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NAME OF OFFEROR OR CONTRACTOR

TEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Delivery Location Code: OAR/OAP OAR/OAP				Table 18
	US Environmental Protection Agency				
	1200 Pennsylvania Avenue NW				
	Mail Code: 62101J				
	OAR/OAP				
	Washington DC 20460 USA				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				
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6. ISSUED BY	CODE HPOD		7. ADI	MINISTERED BY (If other than Item 6)	CODE		
HPOD US Environmental Protect William Jefferson Clinto 1200 Pennsylvania Avenue Mail Code: 3803R	n Building						
Washington DC 20460	2 2 2 22		lo.	AMENDMENT OF ACCUSITATION NO			
8. NAME AND ADDRESS OF CONTRACTOR (No. AMEC ENVIRONMENT & INFRAS Attn: LISA DWYER AMEC FOSTER WHEELER ENVIR 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	TRUCTURE,	INC.	9B × 10,	AMENDMENT OF SOLICITATION NO. DATED (SEE ITEM 11) A. MODIFICATION OF CONTRACT/ORDER NO. -W-16-015 06 B. DATED (SEE ITEM 13)	.		
CODE 038086125	FACILITY C	ODE	0	6/29/2016			
	11. THIS	 					
separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified. 12. ACCOUNTING AND APPROPRIATION DATA (If required) Net Decrease: -\$15,000.00 See Schedule 13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.							
				SES SET FORTH IN ITEM 14 ARE MADE IN THE MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b).			
C. THIS SUPPLEMENTAL AGRE			THORI	TY OF:			
D. OTHER (Specify type of modition	**						
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Except as provided herein, all terms and condition 15A. NAME AND TITLE OF SIGNER (Type or print)		eferenced in Item 9 A or 10A	16A.	retofore changed, remains unchanged and in fundame AND TITLE OF CONTRACTING OFFICE that C. Fox			
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED			FETRONIC S:GNATURE	16C. DATE SIGNED 03/20/2017	
(Signature of person authorized to sign)				(Signature of Contracting Officer)			

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NAME OF OFFEROR OR CONTRACTOR

ITEM NO. (A)	SUPPLIES/SERVICES (B)	QUANTITY (C)	UNIT (D)	UNIT PRICE (E)	AMOUNT (F)
	Incremental Funded Amount changed: from				
	\$110,000.00 to \$95,000.00				
	Buyer changed from Anthony Terrell				
	to Michael C Fox				
	Contracting Officer changed				
	from Anthony Terrell				
	to Michael C Fox				
	CHANGES FOR LINE ITEM NUMBER: 1				
	Obligated Amount for this modification:				
	-\$15,000.00				
	Incremental Funded Amount changed from \$110,000.00 to \$95,000.00				
	CHANGES FOR ACCOUNTING CODE:				
	16-17-C-58D5-102A45-2505-1658DC6125-001				
	Amount changed from \$50,000.00 to \$35,000.00				
	Percent changed from 37.74354 to 0				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				
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AMENDMENT OF SOLICITATION/MODIFICA	ATION OF CONTRACT		1. CONTRACT ID CODE	PAGE	OF PAGES					
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003	See Block 16C	PR-C	AR-17-00814	EP-W-1	6-015					
6. ISSUED BY CODE	HPOD	7. ADI	MINISTERED BY (If other than Item 6)	CODE						
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CODE 038086125	FACILITY CODE	$\neg \mid \mid_{0}$	6/29/2016							
29 TO 109 PL 21 T T T T	11. THIS ITEM ONLY APPLIES TO		3							
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			ES SET FORTH IN ITEM 14 ARE MADE IN THE MINISTRATIVE CHANGES (such as changes in OF FAR 43.103(b).							
C. THIS SUPPLEMENTAL AGREEMEN			# 3h							
D. OTHER (Specify type of modification	and authority)									
X FAR 52.232-22 Limita	tion of Funds									
E. IMPORTANT: Contractor 🗵 is not.	is required to sign this document	and return	copies to the issuing	office.						
1.) De-obligate funding in t	tion is to:			le.)						
2.) Obligate incremental fun TOCOR: Greg Beachley LIST OF CHANGES: Reason for Modification : Fu	ding in the amount	of \$1	0,000.00 to this task o	rder.						
CHANGES FOR LINE ITEM NUMBER										
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Except as provided herein, all terms and conditions of the 15A. NAME AND TITLE OF SIGNER (Type or print)	e document referenced in Item 9 A or	16A.	retofore changed, remains unchanged and in for NAME AND TITLE OF CONTRACTING OFFICE Thael C. Fox							
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED		UNITED STATES OF AMERICA	L FOTRONIC	16C. DATE SIGNED					
(Signature of person authorized to sign)		1.4	(Signature of Contracting Officer)	S:GNATURE	05/08/2017					

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 OF EP-W-16-015/0006/003

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY		UNIT PRICE	AMOUNT
(A)	(B)	(C)	(D)	(E)	(F)
	CHANGES FOR ACCOUNTING CODE:				
	16-17-C-58D5-102A45-2505-1658DC6125-001				
	Amount changed from \$35,000.00 to \$25,000.00				
	NEW ACCOUNTING CODE ADDED:				
	Account code:				
	17-18-C-58D5-102A45-2505-1758DC7058-001				
	Beginning FiscalYear 17				
	Ending Fiscal Year 18				
	Fund (Appropriation) C				
	Budget Organization 58D5				
	Program (PRC) 102A45				
	Budget (BOC) 2505				
	Job # (Site/Project)				
	Cost Organization				
	DCN-LineID 1758DC7058-001				
	Quantity: 0				
	Amount: \$10,000.00				
	Percent: 7.54871				
	Subject To Funding: N				
	Payment Address:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts Durham NC 27711				
	Payment:				
	RTP Finance Center				
	US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination				
	Period of Performance: 07/09/2016 to 07/08/2017				
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AMENDMENT OF SOLICITATION/MODIFIC	ATION OF CO	ONTRACT	CONTRACT ID CODE	PAGE	OF PAGES
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6. ISSUED BY CODE	HPOD		7. ADMINISTERED BY (If other than Item 6)	CODE	
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8. NAME AND ADDRESS OF CONTRACTOR (No., street	t, county, State and	ZIP Code)	9A. AMENDMENT OF SOLICITATION NO).	
AMEC ENVIRONMENT & INFRASTRUATE Attn: LISA DWYER AMEC FOSTER WHEELER ENVIRONM 751 ARBOR WAY, STE 180 (b)(4) BLUE BELL PA 194221960	CTURE, IN	NC.	9B. DATED (SEE ITEM 11) 10A. MODIFICATION OF CONTRACT/OF EP-W-16-015 0006 10B. DATED (SEE ITEM 13)		
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479 546 405 N 10 O CONTRACTOR	11. THIS ITE	EM ONLY APPLIES TO AN	 MENDMENTS OF SOLICITATIONS		
separate letter or telegram which includes a reference THE PLACE DESIGNATED FOR THE RECEIPT OF virtue of this amendment you desire to change an offereference to the solicitation and this amendment, and 12. ACCOUNTING AND APPROPRIATION DATA (If req	pies of the amend to the solicitation OFFERS PRIOR or already submitt is received prior	dment; (b) By acknowledg n and amendment numbe TO THE HOUR AND DAT ted , such change may be to the opening hour and d	jing receipt of this amendment on each copy or rs. FAILURE OF YOUR ACKNOWLEDGEMI E SPECIFIED MAY RESULT IN REJECTION made by telegram or letter, provided each tele	of the offer submitted; ENT TO BE RECEIVE I OF YOUR OFFER If	or (c) By D AT by
See Schedule				+1,210.0	
13. THIS ITEM ONLY APPLIES TO M	ODIFICATION O	F CONTRACTS/ORDERS	. IT MODIFIES THE CONTRACT/ORDER NO.	AS DESCRIBED IN F	ГЕМ 14.
			CHANGES SET FORTH IN ITEM 14 ARE MAI		
B. THE ABOVE NUMBERED CONTRAC appropriation date, etc.) SET FORTH			HE ADMINISTRATIVE CHANGES (such as ch ORITY OF FAR 43.103(b). THORITY OF:	nanges in paying office	ē,
D. OTHER (Specify type of modification	***	To a dia			
X FAR 52.232-22 Limita	25.74				
E. IMPORTANT: Contractor 🗵 is not.			return copies to the		
14. DESCRIPTION OF AMENDMENT/MODIFICATION DUNS Number: 038086125	(Organized by O	CF section neadings, incli	uding solicitation/contract subject matter wher	e reasible.)	
The purpose of this modifica this task order. TOCOR: Greg Beachley LIST OF CHANGES:	tion is t	to de-obligat	e funding in the amoun	t of \$4,240	.20 from
Reason for Modification : Fu	nding On	ly Action			
Obligated Amount for this Mo New Total Obligated Amount f Incremental Funded Amount ch	dification or this A	on: -\$4,240.2			
\$95,000.00 to \$90,759.80					
CHANGES FOR LINE ITEM NUMBER	: 1				
Continued					
Except as provided herein, all terms and conditions of the	ne document refe	renced in Item 9 A or 10A	, as heretofore changed, remains unchanged	and in full force and e	ffect.
15A. NAME AND TITLE OF SIGNER (Type or print)			16A NAME AND TITLE OF CONTRACTING Michael C. Fox	3 OFFICER (Турв or µ	orint)
15B. CONTRACTOR/OFFEROR		15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	EL FOTRONIC S:GNATURE	16C. DATE SIGNED
(Signature of person authorized to sign)		(Signature of Contracting Office)	10/11/2017		

 CONTINUATION SHEET
 REFERENCE NO. OF DOCUMENT BEING CONTINUED
 PAGE
 OF

 EP-W-16-015/0006/P00004
 2
 2

NAME OF OFFEROR OR CONTRACTOR

ITEM NO.	SUPPLIES/SERVICES	QUANTITY	LINIT	UNIT PRICE	AMOUNT
(A)	(B)		(D)	(E)	(F)
	Obligated Amount for this modification: -\$4,240.20				
	Incremental Funded Amount changed from \$95,000.00				
	to \$90,759.80				
	CHANGES FOR ACCOUNTING CODE:				
	17-18-C-58D5-102A45-2505-1758DC7058-001				
	Amount changed from \$10,000.00 to \$5,759.80				
	Payment:				
	RTP Finance Center US Environmental Protection Agency				
	RTP-Finance Center (AA216-01)				
	109 TW Alexander Drive				
	www2.epa.gov/financial/contracts				
	Durham NC 27711				
	FOB: Destination		1		
	Period of Performance: 07/09/2016 to 07/08/2017				
			1		
			1		
			1		
			1		
			1		
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			1		
			1		
NCN 7540 04 454	•				ODTIONAL FORMACOS (4 00)